

nel is specifically tailored toward embedded applications • Complete suite of development tools and compilers, including the Eclipse platform • Powerful APIs for all onboard hardware resources • Integrated drivers: no need for external bus drivers • Application development with Windows XP/2000, Linux, or Solaris OS • Pre-packaged applications and protocols

## SYSTEM MANAGEMENT

### Adax

**Website:** [www.adax.com](http://www.adax.com)

**Model:** Adax Signaling Products **RSC No:** 20553  
Building blocks for system developers; signaling communications controllers and lower layer protocol software • Integrated software and blades for application developers; integrated signaling protocol stacks • Complete signaling gateways for everyone; multipurpose signaling gateways • Signaling nodes – SS7 or IP based STPs, HLR, VLR, SMSCs, databases, and more • Signaling gateways and IP signaling points for SS7 and IP switching, routing, back-haul, and tunneling • Media gateways, media gateway controllers, and softswitches • GPRS and 3G nodes including SGSNs, GGSNs, MSCs, RNCs, and Node Bs • Simulation, monitoring, and billing systems for test and measurement applications • Narrowband signaling for PSTN, GSM, and GPRS networks – SS7 (64k and 2 Mbs HSL), Frame Relay, LAPB/D/V5, and X.25 • Broadband signaling for 3G networks – ATM AAL2 and AAL5, SSCOP/SSCF, SSSAR/SSTED, IP over ATM, and Frame Relay • SIGTRAN signaling for fixed and mobile networks – SCTP, M2PA, M2UA, M3UA, and SUA with SIP interworking • SS7/IP interworking providing the ability to interconnect all three via T1/E1, OC3/STM-1, and Gigabit Ethernet

## TELECOM

### SBS Technologies

**Website:** [www.sbs.com](http://www.sbs.com)

**Model:** TELUM 1000 **RSC No:** 20429  
155 Mbps full duplex line speed • PCI Express interface; PCIe Rev 1.0 compliant; support for a full-duplex OC-3 Interface • Support for 16,000 VCCs; 4 MB local memory • Optional Automatic Protection Switching (APS) • Passes and manages AAL1, AAL2, and raw cells • Segmentation and reassembly of AAL0, AAL3/4, and AAL5 cells • Traffic management supported: ABR, CBR, UBR, and VBR • Single or APS port versions • Supports ATM Forum UNI 3.1 and TM 4.0 • Intelligent Platform Management interface; onboard microcontroller-based subsystem • Hot-swap compliant • Support available for Linux, VxWorks, and Windows 2000/XP

### Transtector Systems

**Website:** [www.transtector.com](http://www.transtector.com)

**Model:** ALPU Series **RSC No:** 21158  
Auxiliary Lightning Protection Unit • Suitable for protecting Gigabit Ethernet systems using fast-acting silicon avalanche suppression diodes and reduced capacitance protection circuitry that permits high signal bandwidth • More than 12 different configurations are available on 2 week lead times • Clamping performance of SASDs while maintaining a TIA Cat-5e compliant network connection • Deliver protection to IEC 61000-4-5 standards • Can protect up to eight Cat-5e pairs as well as several configurations of DC power for

POE applications • Designed to self-sacrifice in the event of a catastrophic event, taking protected equipment offline • 5.5 inches high, by 4 inches wide and 3 inches deep • Metal or plastic enclosures are rated NEMA 3R rainproof

## TELEPHONY: VOIP

### NMS Communications

**Website:** [www.nmscommunications.com](http://www.nmscommunications.com)

**Model:** MG 7000A **RSC No:** 20393  
480 IVR, fax, conferencing, VoIP, 3G 324M video sessions • 16 T1/E1 ports • Call control for CAS, ISDN, and SIP

## THERMAL MANAGEMENT

### Radian Heatsink

**Website:** [www.radianheatsinks.com](http://www.radianheatsinks.com)

**Model:** ATCA BGA Heatsinks **RSC No:** 20383  
Removable ATCA BGA heatsinks can be installed with no special board modifications needed • Standard BGA heatsink sizes range from 21 mm to 45 mm footprints • Heatsink heights available from 7.11 mm to 9.8 mm for low-profile CompactPCI, AdvancedTCA, and PC/104 applications • Attachment options compatible with various chip heights and package types, including plastic, ceramic, and metal • Black anodized plating delivers enhanced performance in harsh environments and natural convection • All products provided pre-assembled, with lightweight aluminum heatsink, selected clip size, and thermal pad option

## TURNKEY SYSTEM

### Motorola

**Website:** [www.motorola.com/computers](http://www.motorola.com/computers)

**Model:** Centellis CO **RSC No:** 20521  
Centellis CO 21KX features: 12U/19" CompactPCI framework to deliver 5-nines availability • Fault-resilient design minimizes hardware induced failures • CompactPCI hot swap capability minimizes mean-time-to-repair • PICMG 2.16-compliant packet switching backplane • Ethernet switches and shelf controllers on same board, redundant and hot-swappable • Designed for NEBS Level 3 for telecom Central Office (CO) applications • EndurX CO 21KX features: PICMG 2.16-compliant CompactPCI packet switching backplane with 19 6U node slots • Dual redundant Carrier Grade Linux/Intel architecture processor-based nodes • Redundant Layer 2 Gigabit Ethernet switches and shelf management controllers • High availability framework API for HA-aware applications • Policy-driven event handling/propagation • Flexible software upgradability

### Pinnacle Data Systems

**Website:** [www.pinnacle.com](http://www.pinnacle.com)

**Model:** TS2100 Telco System **RSC No:** 20413  
2.0 GHz, low voltage, Xeon processor • One- or two-way configuration • L2 cache with integrated 512 KB • Memory: four DIMM sockets for up to 4 GB DDR266, registered • SDRAM, 72-bit, ECC, 184-pin 256 MB, 512 MB, 1 GB, 2 GB • Front Panel I/O: One USB 2.0 port • One serial RJ-45 port • Fibre: Two small form-factor pluggable connections • LEDs for status, health, hard drive activity, and Ethernet/FibreChannel connections • Switch Connections: Backplane 12 x 10/100/1000 Mbps Ethernet, Front Egress: 3 x 10/100/1000 Mbps

Ethernet • InterSwitch Link: 1 x 10/100/1000 Mbps Ethernet • Chassis: 13U – 22.75" (577.85 mm) by 18.00" (508 mm) (D) by 19.00" (482.60 mm) (W) • Four fans cable mgmt filter • System power: One power distribution board • Support for up to four –48V DC Power Entry Modules (PEMs) • Backplane: 14-slot full mesh, 12 system slots, two switch slots

## SBS Technologies

**Website:** [www.sbs.com](http://www.sbs.com)

**Model:** AVC-cPCI-3003-3U **RSC No:** 20512  
Lightweight – less than 11 pounds (4.9 kg) including modules • Compact for use in small spaces • Six, 3U CompactPCI slots • CM4 single board computer with 750/755 400-500 MHz processor, two 1 MB L2 cache, 1.6 GB/s • MIL-C-38999 Series III connectors • COTS AVC rugged conduction cooled chassis

## Sun Microsystems

**Website:** [www.sun.com](http://www.sun.com)

**Model:** Netra CP 2300 **RSC No:** 20504  
Part of a comprehensive line of NEBS certified systems, storage, and management/availability software from Sun • Solaris OS operating environment • 650 MHz UltraSPARC III processor • Up to 2.5 GB memory (512 MB minimum) • A rack-mount architecture, CompactPCI compliant, and adherence to PICMG standards



## VIDEO: FRAME GRABBER

### SBS Technologies

**Website:** [www.sbs.com](http://www.sbs.com)

**Model:** AVC-cPCI-3009 **RSC No:** 20562  
COTS rugged conduction cooled chassis • 6 3U CompactPCI slots • MIL-C-38999 connectors • 9.5 pounds with modules • 5.0" (H) x 8.73" (W) x 8.75" (D) • Power supply: 100 watts, single or dual • CR3 Single Board Computers: Intel Celeron processor, system controller, or peripheral card operation • MIL-STD-1553 interfaces: Two dual redundant channels, independent operation as a bus controller, remote terminal, and dual function bus monitor

## WIRELESS: SDR

### Innovative Integration

**Website:** [www.innovative-dsp.com](http://www.innovative-dsp.com)

**Model:** Quixote **RSC No:** 20448  
600-MHz TMS320C6416 DSP; 2-6 MGate Virtex-II FPGA • 32 Mbytes SDRAM, 8 Mbytes ZBT SBSRAM; 64/32-bit CompactPCI, 66 MHz, 5 V/3.3 V • AD6645 and AD9764 converters • Complex triggering modes with HW event logging • PMC site w/Jn4 to FPGA DIO • PICMG 2.17 StarFabric-compliant